

Article 19

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AMENDED CLAIMS

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(10.04.00); original claims 1-16 replaced by new claims
1-9 (2 pages)]

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1. Device for removing biomolecules comprising an
ultrafiltration module optionally upstream and in
series with a dialysis module, characterized in that
this device further comprises a column containing an
10 adsorbent gel combining the properties of size
exclusion and affinity chromatographies, said adsorbent
gel consisting essentially of a polysaccharide matrix
onto which is grafted a polymer coupled to an affinity
ligand and having an adjustable cut-off of between
15 2 kDa and 60 kDa, said column being mounted branching
from said ultrafiltration module.

2. Device according to claim 1; characterized in
that the adsorbent gel consists of a matrix based on an
agarose derivative onto which is grafted polyethylene
20 glycol coupled to iminodiacetic acid itself coupled to
copper(I) ions and having a cut-off of 20 kDa.

3. Device for separating and purifying
biomolecules comprising a column containing an
adsorbent gel combining the properties of size
25 exclusion and affinity chromatographies, said gel
consisting essentially of a polysaccharide matrix onto
which is grafted a polymer coupled to an affinity
ligand and having an adjustable cut-off of between
2 kDa and 60 kDa, said column being optionally mounted
30 branching from a filtration module.

4. Device according to claim 3, characterized in
that the adsorbent gel consists of a matrix based on an
agarose derivative onto which is grafted polyethylene
glycol coupled to iminodiacetic acid itself coupled to
35 copper(I) ions and having a cut-off of 20 kDa.

